

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A cleaning sheet for removing foreign matter adhering on a tip of a probe needle of a probe card, comprising a cleaning layer having a surface, the surface of the cleaning layer forming one surface of the cleaning sheet, wherein the cleaning layer contains a urethane polymer and a vinyl polymer, said cleaning layer ~~having no abrasive~~ does not contain additives that promote wear and is adapted to receive penetrating probe needles and remove and retain impurities on a tip of said probe needles.

2. (original): The cleaning sheet as claimed in claim 1, wherein the vinyl polymer is an acrylic polymer.

3. (original): The cleaning sheet as claimed in claim 1, wherein the cleaning layer comprises a mixture containing a urethane polymer and a vinyl monomer, the mixture being irradiated with radiation to cure it.

4. (original): The cleaning sheet as claimed in claim 1, wherein the cleaning layer is formed by reacting a polyol and a polyisocyanate in the presence of a vinyl monomer to form the urethane polymer to form a mixture containing the urethane polymer and a vinyl monomer, and irradiating the mixture with radiation to cure it.

5. (original): The cleaning sheet as claimed in claim 1, further comprising a backing layer.

6. (original): The cleaning sheet as claimed in claim 5, further comprising a pressure-sensitive adhesive layer, wherein the cleaning layer is provided on one surface of the backing layer and the pressure-sensitive adhesive layer is provided on another surface of the backing layer.

7. (original): The cleaning sheet as claimed in claim 1, wherein the cleaning layer has an initial elastic modulus of 0.5 to 100 N/mm².

8. (original): The cleaning sheet as claimed in claim 7, wherein the vinyl polymer is an acrylic polymer.

9. (original): The cleaning sheet as claimed in claim 7, wherein the cleaning layer comprises a mixture containing a urethane polymer and a vinyl monomer, cured by irradiation with radiation.

10. (original): The cleaning sheet as claimed in claim 7, wherein the cleaning sheet layer comprises a mixture containing a urethane polymer and a vinyl monomer, the urethane prepolymer being formed by reaction between a polyol and a polyisocyanate in the presence of the vinyl monomer, the mixture being cured by irradiation with radiation.

11. (original): The cleaning sheet as claimed in claim 7, further comprising a backing layer.

12. (original): The cleaning sheet as claimed in claim 11, further comprising a pressure-sensitive adhesive layer, wherein the cleaning layer is provided on one surface of the backing layer and the pressure-sensitive layer is provided on another surface of the backing layer.

13. (original): A transporting member comprising a support and the cleaning layer of claim 1 provided on the support.

14. (original): The transporting member as claimed in claim 13, wherein the cleaning sheet is provided on the support through a sticking means.

15. (original): The transporting member as claimed in claim 13, wherein the support is a wafer.

16. (original): A transporting member comprising a support and the cleaning sheet of claim 7 provided on the support.

17. (original): The transporting member as claimed in claim 16, wherein the cleaning sheet is provided on the support through a sticking means.

18. (original): The transporting member as claimed in claim 16, wherein the support is a wafer.

19. (currently amended): A method of producing a cleaning sheet, comprising the steps of:

reacting a polyol and a polyisocyanate in the presence of a vinyl monomer to form a urethane polymer, thereby forming a mixture containing the urethane polymer and the vinyl monomer;

coating the mixture on a release sheet or a backing layer; and

irradiating the coated mixture with radiation to cure the mixture to form the cleaning layer, wherein said cleaning layer ~~has no abrasive~~ does not contain additives that promote wear and is adapted to receive penetrating probe needles and remove and retain impurities on a tip of said probe needles.

20. (currently amended): A method of cleaning a probe needle, comprising contacting ~~the~~ a cleaning layer of the cleaning sheet with a probe needle of a probe card having a tip to remove foreign matter adhering on the tip of the probe needle, wherein said cleaning sheet comprises a cleaning layer having a surface, the surface of the cleaning layer forming one surface of the cleaning sheet, wherein the cleaning layer contains a urethane polymer and a vinyl polymer, said cleaning layer ~~having no abrasive~~ does not contain additives that promote wear.

21. (currently amended): A method of cleaning a probe needle, comprising contacting ~~the~~ a cleaning layer of ~~the~~ a transporting member with a probe needle of a probe card having a tip to remove foreign matter adhering on the tip of the probe needle, wherein said transporting member comprises a support and a cleaning layer having a surface, the surface of the cleaning layer forming one surface of the transporting member, wherein the cleaning layer contains a urethane polymer and a vinyl polymer, said cleaning layer ~~having no abrasive~~ does not contain additives that promote wear and is adapted to receive penetrating probe needles and remove and retain impurities on a tip of said probe needles.